

## Proposal Full View

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## Applicant Information

Organization Name	Sacramento Central Groundwater Authority *
Tax ID	261529837
Proposal Name	Sacramento Central Groundwater Authority Basin Management Objective Threshold Development and Recharge Mapping Project *
Proposal Objective	<p>There are two primary objectives of the proposed project: 1)To improve groundwater management through the development of thresholds necessary to implement and monitor a quantitative, measurable BMO for groundwater levels 2)To improve the understanding of recharge in the Central Basin to allow for more informed land use and water management decisions. Also, it will comply with AB359. The development of thresholds will improve SCGA's ability to convey regional groundwater conditions to decision-makers. Currently, groundwater conditions are summarized as GW elevation contour maps, making changes over time difficult to recognize for those unaccustomed to such formats. The BMO was designed in the CSCGMP to include the thresholds, allowing for the display of color-coded polygons throughout the Central Basin. HydroDMS provides the ability to automate the display of the color-coded polygons, allowing for efficient development of maps for reports for decision makers and Central Basin managers. Such color-coding will highlight areas of concern and help focus water management activities where they are most needed. The recharge component will seek to improve the conceptual understanding of the Central Basin through identification of sources of groundwater recharge as well as the relative magnitude of each source. Contours of recent groundwater levels indicate flow from the foothills in the northeast and losses from surface water courses. These recharge sources help meet pumping needs in the cones of depression in the area between the rivers. An improvement in the understanding of the recharge sources for the Central Basin will help identify potential impacts from development in the foothills and in the eastern part of the county.This will also improve the conjunctive management of SW and GW supplies, which is particularly important along the Cosumnes River basin, where surface water / groundwater interaction is critical for several habitat restoration projects. *</p>

## Budget

Other Contribution	\$0.00
Local Contribution	\$0.00
Federal Contribution	\$0.00
Inkind Contribution	\$69,000.00
Amount Requested	\$249,780.00 *
Total Project Cost	\$318,780.00 *

## Geographic Information

Latitude *	DD(+/-)38	MM28	SS34
Longitude *	DD(+/-)121	MM19	SS26
Longitude/Latitude Clarification	Location	Location is within the SCGA boundaries	
County	Sacramento *		
Ground Water Basin	Sacramento Valley-South American		
Hydrologic Region	Sacramento River		
Watershed	Valley American		

## Legislative Information

Assembly District	5th Assembly District,9th Assembly District,10th Assembly District *
Senate District	1st Senate District,5th Senate District,6th Senate District *
US Congressional District	District 3 (CA),District 5 (CA) *

## Project Information

Project Name	Sacramento County Groundwater Authority Basin Management O
Implementing Organization	Sacramento Central Groundwater Authority
Secondary Implementing Organization	
Proposed Start Date	5/1/2013
Proposed End Date	4/1/2015
Project Scope	Due to 125 character limitation in this field, please see Attachment 5 of the the SCGA proposal for the scope of work.
	The SCGA BMO Threshold Development and Recharge Mapping Project has two goals: 1) to improve groundwater management through the development of thresholds necessary to implement and monitor a quantitative, measurable BMO for groundwater levels and 2) to improve the understanding of recharge in the Central Basin to allow for more informed land use and water management decisions. Additionally, to meet the requirements of AB359 (Huffman). Thresholds for the

Project Description	<p>groundwater level BMO will be developed using historical data and integrated hydrologic model simulations to establish a measurable "bandwidth" of groundwater levels based on the maximum and minimum simulated groundwater elevations shown through the Sacramento Area Integrated Water Resource Model (SaciWRM) 2030 Baseline (2030 Baseline). The 2030 Baseline will be updated as part of this proposed project to improve stakeholder acceptance. The resulting bandwidths will be used in SCGA's HydroDMS data management system, which was designed to automate the display of compliance with BMO 2 using these thresholds. The conceptual understanding of recharge will be improved through two processes. The first process will merge available data from SaciWRM to map the spatial distribution of recharge sources to the Central Basin. This will include river recharge, flows from the foothills, and surface recharge from rainfall and irrigation applied water within the SCGA area. Additionally, a field study analyzing primarily stable isotopes, cations, and anions will be used to identify the portions of the Central Basin that are recharged from surface water courses. This will allow for improved understanding of the importance of surface water recharge compared to aerial recharge and recharge from the foothills to the east.</p>
Project Objective	<p>The project will allow for an improved ability to manage the basin through the development of quantifiable thresholds that allow for efficient and understandable reporting to decisions makers. The improved understanding of recharge will improve the ability to model and analyze groundwater conditions, resulting in more informed decisions on land uses, conjunctive use, and impacts from development.</p>

### Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Land Restoration	0	Improve understanding of Cosumnes River interaction with groundwater to support habitat restoration
Primary	Groundwater Management-Other	1	Semiannual Reports for Decision Makers
Primary	Water Storage -- Conjunctive-Water Supply Enhancement	0	Improve understanding of recharge to support conjunctive management of Sacramento County groundwater and surface water resources
Primary	Water Storage -- Groundwater-Recharge area protected	0	Improve understanding of recharge to allow for management decisions on recharge area protection
Primary	Management Plans-Groundwater	0	Completion of BMO 2
Primary	Modeling-Groundwater modeling developed or improved	0	Improved accuracy of groundwater and surface water models through improved recharge understanding

Project Objective

### Budget

Other Contribution	0
Local Contribution	0
Federal Contribution	0
Inkind Contribution	69000
Amount Requested	249780
Total Project Cost	318780

### Geographic Information

Latitude DD(+/-)	38	MM 28	SS 34
Longitude DD(+/-)	121	MM 19	SS 26
Longitude/Latitude Clarification		Location	Location is within the St
County Sacramento Ground Water Basin Sacramento Valley-South American Hydrologic Region Sacramento River WaterShed Valley American			

### Legislative Information

Assembly District	5th Assembly District,9th Assembly District,10th Assembly District
Senate District	1st Senate District,5th Senate District,6th Senate District
US Congressional District	District 5 (CA),District 3 (CA)

### Section : Applicant Information and Question's Tab

## APPLICANT INFORMATION AND QUESTION'S TAB

**Q1. Applicant Information**

**Provide the agency name, address, city, state, and zip code of the applicant submitting the application.**

Sacramento Central Groundwater Authority 827 7th Street, Room 301 Sacramento, CA 95814

**Q2. Proposal Description:**

**Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.**

There are two primary goals of the proposed project: 1) to improve groundwater management through the development of thresholds necessary to implement and monitor a quantitative, measurable BMO for groundwater levels and 2) to improve the understanding of recharge in the Central Basin to allow for more informed land use and water management decisions. Additionally, to meet requirements of AB359 (Huffman). The development of thresholds will improve SCGA's ability to convey regional groundwater conditions to decision-makers. Currently, groundwater conditions are summarized as groundwater elevation contour maps, making changes over time difficult to recognize for those unaccustomed to such formats. The BMO was designed in the CSCGMP to include the thresholds, allowing for the display of color-coded polygons throughout the Central Basin. The HydroDMS data management system provides the ability to automate the display of the color-coded polygons, allowing for efficient development of maps for reports for decision makers and Central Basin managers. Such color-coding will highlight areas of concern and help focus water management activities where they are most needed. The proposed project will provide the last remaining piece, the thresholds themselves, to quantitatively manage this BMO. The recharge component will seek to improve the conceptual understanding of the Central Basin through identification of sources of groundwater recharge as well as the relative magnitude of each source. Contours of recent groundwater levels indicate flow from the foothills in the northeast and losses from surface water courses. These recharge sources help meet pumping needs in the cones of depression in the area between the rivers. An improvement in the understanding of the recharge sources for the Central Basin will help identify potential impacts from development in the foothills and in the eastern part of the county. It will also help improve the conjunctive management of surface water and groundwater supplies, which is particularly important along the Cosumnes River basin, where surface water / groundwater interaction is critical for several habitat restoration projects. Both components of the project will help meet BMOs of the CSCGMP. The threshold development will complete the ability to monitor for triggers under BMO Number 2: Establish specific minimum groundwater elevations within all areas of the basin consistent with the Water Forum Solution. The improved recharge understanding will also support BMO Number 2 through assisting in future land use, water use, and conjunctive use decisions. The recharge work will further assist BMO Number 4 (Protect against any adverse impacts to surface water flows) through the improved understanding of the interrelationship of the groundwater and surface water resources.

**Q3. Project Director:**

**Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.**

Darrell Eck Executive Director, SCGA telephone (916) 874-5039 fax (916) 874-5698 email eckd@saccounty.net

**Q4. Project Manager:**

**Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.**

Darrell Eck Executive Director, SCGA telephone (916) 874-5039 fax (916) 874-5698 email eckd@saccounty.net

**Q5. Additional Information:**

**Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:**

[http://www.water.ca.gov/groundwater/groundwater\\_basics/gw\\_contacts\\_info.cfm](http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm)

- 1) ☐ Northern Region
- 2) ☒ North Central Region
- 3) ☐ South Central Region
- 4) ☐ Southern Region

**Q6. Additional Information:**

**Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.**

The Central Sacramento County Groundwater Management Plan was adopted on November 8, 2006 pursuant to California Water Code Section 10750 et seq.

**Q7. Additional Information:**

**Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).**

Joint Powers Agreement The Sacramento Central Groundwater Authority (SCGA) was formed on August 29, 2006 through a Joint Powers Agreement signed by the Cities of Elk Grove, Folsom, Rancho Cordova, and Sacramento and the County of Sacramento for the following purposes: -To maintain the long-term sustainable yield of the Sacramento Central Groundwater Basin; -To ensure implementation of the Basin Management Objectives that are prescribed by the Central Sacramento County Groundwater Management Plan (CSCGMP); -To oversee the implementation of any Well Protection Program that may be prescribed by the CSCGMP; -To manage the use of groundwater in the Central Basin and facilitate implementation of an appropriate conjunctive use program by water purveyors; -To coordinate efforts among those entities represented on the governing body of the joint powers authority to devise and implement strategies to safeguard groundwater quality; and -To work collaboratively with other entities, including the Sacramento Groundwater Authority, the Southeast Sacramento County Agricultural Water Authority and other groundwater management authorities that may be formed in the County of Sacramento and adjacent political jurisdictions, in order to promote coordination of policies and activities throughout the region. Currently, SCGA consists of sixteen members representing stakeholder interest groups that include agriculture, agriculture/residential users, business, environmental/community organizations, local governments/public agencies and water purveyors. Central Sacramento County Groundwater Management Plan In February 2006, the CSCGMP was accepted by the Central Sacramento County Groundwater Forum and the Water Forum Successor Effort. This document was the result of six years of negotiation and agreements between various stakeholders in the region. The CSCGMP is a planning tool that assists basin stakeholders in maintaining a safe, sustainable, and high quality resource for all groundwater users within the Central Basin. The CSCGMP provides for the review of current and future water supply and demands and contains BMOs. Each BMO focuses on managing and monitoring the basin to benefit all groundwater users within the basin. The GMP also contains ?trigger points? and remedies to ensure full implementation of the individual BMOs. The CSCGMP also describes the development and implementation of the Central Basin Well Protection Program. The Central Basin Well Protection Program is designed to protect existing private domestic well and agricultural well owners

from declining groundwater levels resulting from new development in the Basin. Lastly, the CSCGMP describes the development and implementation of the Groundwater Contamination Monitoring and Collaboration Program to proactively address the groundwater contamination and remediation issues in the Central Basin.

#### Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

Sacramento Central Groundwater Authority will provide in-kind staff services for the project.

#### Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

No urban water suppliers will receive funding from the proposed grant.

#### Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

No urban water suppliers will receive funding from the proposed grant.

#### Q11. Completeness Check:

Have all of the fields in the application been completed?

Yes

#### Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

NA

### Section : Application Attachments Tab

#### APPLICATION ATTACHMENTS TAB

##### Attachment 1. Authorizing Documentation

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1\_LGA12\_SCGA\_AuthDoc\_2of2.pdf,Att1\_LGA12\_SCGA\_AuthDoc\_1of2.pdf

##### Attachment 2. Eligible Applicant Documentation

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2\_LGA12\_SCGA\_EligDoc\_1of1.pdf

##### Attachment 3. Status of GWMP

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments:

Att3\_LGA12\_SCGA\_GWMP\_2of5.pdf,Att3\_LGA12\_SCGA\_GWMP\_3of5.pdf,Att3\_LGA12\_SCGA\_GWMP\_4of5.pdf,Att3\_LGA12\_SCGA\_GWMP\_5of5.pdf,Att3\_LGA1

##### Attachment 4. Project Description

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4\_LGA12\_SCGA\_ProjD\_1of1.pdf

##### Attachment 5. Work Plan

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att5\_LGA12\_SCGA\_WrkPln\_1of1.pdf

##### Attachment 6. Budget

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6\_LGA12\_SCGA\_BUDGET\_1of1.pdf

##### Attachment 7. Schedule

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7\_LGA12\_SCGA\_SCHED\_2of2.pdf,Att7\_LGA12\_SCGA\_SCHED\_1of2.pdf

##### Attachment 8. Quality Assurance

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8\_LGA12\_SCGA\_QA\_1of1.pdf

#### **Attachment 9. Past Performance**

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att9\_LGA12\_SCGA\_PERFORM\_2of2.pdf, Att9\_LGA12\_SCGA\_PERFORM\_1of2.pdf

#### **Attachment 10. AB1420 and Water Meter Implementation Compliance**

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att10\_LGA12\_SCGA\_1420\_2of2.pdf, Att10\_LGA12\_SCGA\_1420\_1of2.pdf

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